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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/996,865	11/27/2001	Edward T. Pak	SAND-P024B-cip	2187	
7:	590 06/24/2005		EXAM	INER	
Fernandez & Associates LLP			NGO, CHUONG D		
1047 El Camino Real Suite 201			ART UNIT	PAPER NUMBER	
Menlo Park, CA 94025			2193		
			DATE MAILED: 06/24/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/996,865	PAK ET AL.	
Office Action Summary	Examiner	Art Unit	
	Chuong D. Ngo	2193	
The MAILING DATE of this communication			
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATIV - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of thin period will apply and will expire SIX (6) MON statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communic 3ANDONED (35 U.S.C. § 133).	cation.
Status			
1) Responsive to communication(s) filed on	29 March 2005.		
	This action is non-final.		
3) Since this application is in condition for all		ers, prosecution as to the merit	ts is
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C.E). 11, 453 O.G. 213.	
Disposition of Claims			
. 4)⊠ Claim(s) <u>1-16</u> is/are pending in the applica	ation		
4a) Of the above claim(s) is/are with			
5) Claim(s) is/are allowed.	Tarawi nom conclusivation.		
6) Claim(s) <u>1,2,4-6 and 12-16</u> is/are rejected			
7)⊠ Claim(s) <u>3 and 7-11</u> is/are objected to.			
8) Claim(s) are subject to restriction a	nd/or election requirement.		
	, , , , , , , , , , , , , , , , , , ,		
Application Papers			
9) The specification is objected to by the Exa			
10) The drawing(s) filed on is/are: a)			
Applicant may not request that any objection to		, ,	.
Replacement drawing sheet(s) including the control of the oath or declaration is objected to by the	· · · · · · · · · · · · · · · · · · ·		` '
	ie Laminer. Note the attache	JOHICE ACTION OF TORM PTO-152	۷.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for	reign priority under 35 U.S.C. {	119(a)-(d) or (f).	
a) All b) Some * c) None of:	manta hawa basa wa 1911 A		
1. Certified copies of the priority docur		nulication NI-	
2. Copies of the certified copies of the			
 Copies of the certified copies of the application from the International But 		received in this ivational Stage	;
* See the attached detailed Office action for a		received	
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uttachment(s)	 டு		
) Notice of References Cited (PTO-892)	4) ∐ Interview 9	Summary (PTO-413) s)/Mail Date	
) Notice of Draftsperson's Patent Drawing Review (PTO-948	o) rapci itol		
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 		nformal Patent Application (PTO-152)	

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DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1,2,4-6 and 12 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Fletcher (6,329,857).

Fletcher discloses in a dynamic adder (figure 2A) including dynamic domino circuits (630) for implementing a three term carry logic, the circuit having a logic portion (630a, see figure 5), a first (gn), second (pn) and third (kn) dynamic output portions, a first (637) and second (639) transistors, a third (634) and fourth (636) transistors, a fifth (635) and sixth (638) transistor wherein the inversion of any of said carry terms is clearly a function of true terms as claimed.

3. Claims 12-16 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Bradley (6,496,846).

Bradley discloses in figure 1 a dynamic adder (see figure 2) having a dynamic circuit for implementing a mutually exclusive circuit to indicate groups three term carry logic (Pin,Kin,Gin), and only one of the terms would be high a any time (see col. 2, lines 29-30).

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Therefore, they can be expressed as \sim Pin = Kin + Gin, \sim Kin = Pin + Gin, and \sim G = Pin + Kin as claimed.

- 4. Claims 3,7-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Applicant's arguments filed on 03-09-2005 have been fully considered but they are not persuasive with respect to claims 12-16.

It is respectfully submitted that the dynamic circuit in Bradley clearly implements a mutually exclusive logic function since only one of the terms would be high at any time (see col. 2, lines 29-30). It is further submitted that both Bradley's and the present invention's outputs are 100 or 010 or 001 for gpk. The output 011, 101 or 110 as applicant's argued is the inverse logic of gpk.

Applicant's arguments with respect to claims 1-11 have been considered but are moot in view of the new ground(s) of rejection.

6. In the Remark of the Preliminary amendment filed on 11/27/2001, applicant clearly stated that "claim 30-42 relating to a dynamic adder are pending in this application". Therefore, only claims 30-42 which renumbered 4-16 were subjected for examination in the first Office action. However, applicant later submitted in the amendment filed on 03/29/2005 that claims 1-16 are pending in this application. The later submission and applicant's amendment necessitated

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the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D. Ngo whose telephone number is (571) 272-3731. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Chuong D Ngo **Primary Examiner**

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10/22/2005